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basic imagery interpretation report

Activity and Developments at Plesetsk Missile/Space Test Center SSM (S)

MISSILE RANGES: STRATEGIC SSM SPACE FACILITIES

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INSTALLATION OR ACTIVITY NAME Activity and Developments at Plesetsk Missile/Space Test Center SSM, May 1978—March 1979					COUNTRY UR
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LATEST IMAGERY USED	NEGATION DATE (if required)
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ABSTRACT

1. (TSR) Significant events at Plesetsk Missile/Space Test Center (PMSTC) SSM from May 1978 through March 1979 included the start of conversion/modification of ICBM launch test sites 11, 14, and 22; continued construction at ICBM launch test site 28, the mobile missile-related facilities, and space launch sites 3 and 27; the start of construction/modification at space launch site 9; new construction and activity at the missile handling facility; and the start of modification of the VT-3 (Bow and Arrow) interferometer at the rangehead tracking facility.

2. (TSR) This report is based upon all available KEYHOLE imagery acquired between [] and updates NPIC report []. A location map, nine tables, and 11 annotated photographs are also included in this report.

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INTRODUCTION

3. (TSR) Plesetsk Missile/Space Test Center SSM is situated in the northwestern USSR, approximately 400 nautical miles (nm) northeast of Moscow (Figure 1). This major Soviet offensive missile and space test center has an important function in the research and development (R&D) of ICBMs, the launching of reconnaissance and research-related satellites, and strategic rocket forces (SRF) troop training.

4. (TSR) PMSTC contains 24 launch sites; ten of these are complete, one is under construction, two are deactivated, five are undergoing conversion/modification, one is abandoned, and five are not operational. PMSTC also contains separate tracking and instrumentation installations, radio communication stations, and extensive base support facilities.

5. (TSR) This report updates the previous report on PMSTC.¹ The discussion of activity observed at the test center has been divided into three categories: weapon systems, space systems, and support facilities.

BASIC DESCRIPTION

Weapon Systems

6. (TSR) PMSTC currently supports R&D for the SS-16 and crew training for the SS-13. The test center contains six troop training silos for the SS-13 ICBM system, five SS-16 mobile ICBM-associated facilities, four former SS-13 silos which are currently undergoing conversion/modification, and two new launch silos under construction for an as yet unidentified missile system (Table 1).

SS-16

7. [] Since that time new construction/modification activity has continued at four of the five SS-16 mobile ICBM facilities. No mobile missile ground support equipment (GSE) has been observed at any of the five SS-16 mobile ICBM-associated facilities during this reporting period.

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8. (TSR) Activity which highlighted the period included the construction of one 66- by 24-meter 11 bay garage (six meters wider than the standard 11-bay garage) and foundations for a high-bay building at ICBM Launch Test Site 5 (Figure 2). An SS-16/-20-associated, [] van truck mockup was observed at Mobile ICBM Facility 2 (Figure 3).

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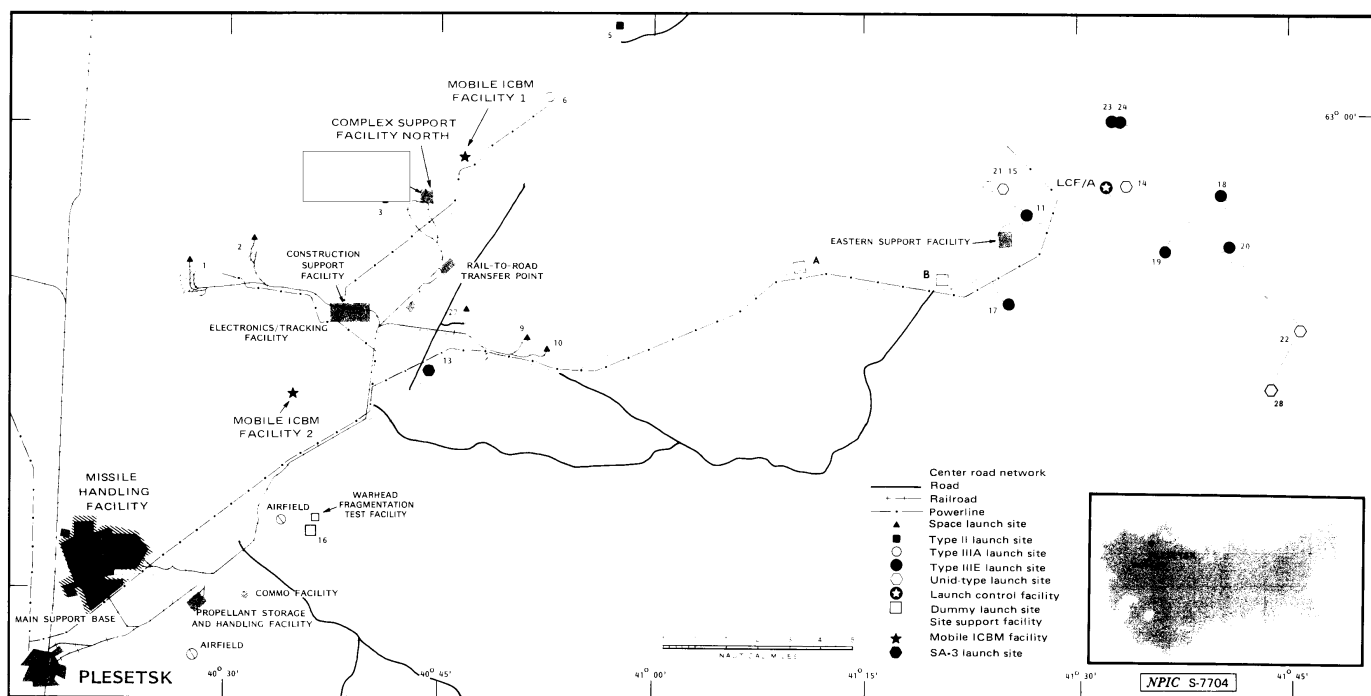


FIGURE 1. LOCATIONS OF FACILITIES AT THE PLESETSK MISSILE/SPACE CENTER SSM, USSR

9. (TSR) A chronology of significant activity and construction/modification observed at the five SS-16 mobile ICBM facilities is listed in Table 2. An accounting of mobile missile-related garages and buildings, either complete or under construction at the five SS-16 mobile ICBM-associated facilities, is presented in Table 3.³

SS-13

10. [] The SS-13 facilities include six type IIIE launch silos, a launch control facility (LCF), and a mockup of a type IIIE silo. During the reporting period six successful SS-13 launches occurred.⁴

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11. (TSR) A listing of SS-13 launches from the rangehead and correlations with significant activity at launch test sites 17, 18, and 20 is presented in Table 4.⁴ No activity was observed at launch test sites 19, 23, and 24.

Silos Currently Undergoing Conversion/Modification

12. (TSR) Conversion/modification of four former type IIIE silos to unknown type silos was begun at PMSTC during the reporting period. Conversion/modification was first observed at launch test site 14 on [] The silo door had been removed from the rails, and two cylinders were on the silo apron on [] the headworks area had been faced with concrete blocks (Figure 4).

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13. (TSR) Conversion/modification of the north silo at launch test site 11 had begun by [] [] when a cylinder was observed on the silo apron. Three cylinders were observed on the silo apron at the south silo of launch test site 11 on imagery of [] This was the beginning of conversion/modification at this silo.

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14. (TSR) Conversion/modification at launch test site 22 was observed on imagery of [] [] when three cylinders were on the silo apron (Figure 5).

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15. (TSR) A chronology of significant activity and conversion/modification activity observed at launch test sites 11, 14, and 22 is presented in Table 4.

New Silos Under Construction

16. (TSR) ICBM launch test site 28 was first observed under construction on imagery of [] [] Construction of the dual silos progressed slowly throughout the reporting period and was highlighted by the construction of gantry cranes at both silos (Figure 6). A construction chronology is presented in Table 5.

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Space Systems

17. (TSR) PMSTC includes launch facilities for six classes of space boosters (SL-3, -4, -6, -7, -8 and -14), all of which are derivatives of MRBM/IRBM and ICBM weapon systems (Table 6).

SL-3/-4/-6

18. (TSR) Space launch sites 1, 2, and 3 were originally built as type 1A (SS-6) launch sites. Launch sites 1 and 2 were modified in the mid-1960s and are now used to support SL-3, -4, and -6 launches. The payloads associated with these space boosters have included communications, elint, reconnaissance, geophysical, and vertical space probes. A listing of space launches and significant activity is given in Table 7.

19. (TSR) Space launch site 3 was deactivated and partially dismantled in mid-1967. Since September 1976 and through the current reporting period, considerable construction activity has been underway at launch site 3, suggesting a new role for this space launch site (Figure 7). Refacing of the flame bucket had been completed by []

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SL-7/-8

20. (TSR) The SL-7 has been launched from space launch site 9, a two-pad, one-gantry launch site. The gantry for the east launch pad was never completed. The last launch of an SL-7 from PMSTC occurred in June 1977.² On [] new construction/modification activity was observed at this site. Activity has included the excavation of the propellant storage bunkers, the launch control bunker, and foundations for three new buildings (Figure 8).

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21. (TSR) The SL-8 is launched from space launch site 10, a two-pad, two-gantry launch site. No significant activity was observed at this launch site during the reporting period.

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SL-14

22. (TSR) The SL-14 is a three-stage space system which is launched from space launch site 27. All six launches to date have been from the south launch pad.^{2*} By [REDACTED] the in-pad erector had been installed in the north launch pad (Figure 9).

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Support Facilities

23. (TSR) Fourteen facilities provide support for the weapon and space launch operations at PMSTC (Table 8). Activity was observed at nine of the support facilities during the reporting period (Table 9). Of particular significance was the activity observed at the missile handling facility (MHF; Figure 10) and the rangehead tracking facility.

Missile Handling Facility

24. (TSR) Type II and probable type I warhead vans were observed at the MHF in the payload checkout area (formerly the space payload checkout area) on imagery of [REDACTED]. Their presence implies that this area is no longer associated exclusively with space payloads.

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25. (TSR) A truck-mounted TWIN EAR antenna was observed in the SS-16 receiving and checkout area of the MHF on imagery of [REDACTED]. This was the first sighting of a TWIN EAR at this facility since April 1976.

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Rangehead Tracking Facility

26. (TSR) The VT-3 (Bow and Arrow) interferometer at this tracking facility is being modified. Trees were being cleared along an azimuth of [REDACTED] from the central control building (Figure 11). On [REDACTED] the clearing extended approximately 4,500 meters from this building. A modification of this type will improve the angular rate measuring capability of the facility. This construction is probably associated with new missile/space programs at PMSTC. Silo conversion/modification for an unknown missile system was underway at this test center during the reporting period, as was expansion of space launch facilities. Similar VT-3 modifications were being made at Vorkuta Interferometer [REDACTED], Tyuratam Rangehead Tracking Facility [REDACTED], and Tyuratam Tracking Facility 5 [REDACTED].

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Table 1. Weapon Systems and Launch Facilities at PMSTC
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System	Launch Site(s)	Function	Remarks
SS-16	Mobile ICBM facility 1,2; ICBM launch test site 5, 6, 21	R&D	Mobile missile-related construction/modification continued at mobile ICBM facility 1 (formerly launch site 4), mobile ICBM facility 2 (formerly launch site 7), and launch site 5; site 21 (a former SS-X-15-associated site) was modified in 1970-71
SS-13	17, 18, 19, 20, 23 & 24	Troop training	Sites 17, 18, 19, 20, 23, & 24 are IIIE single-silo sites
SS-13	16	Training of SS-13 security troops	Site modified to resemble deployed SS-13 launch site by [REDACTED]
Unknown	11,14, 22, & 28	R&D/unknown	Sites 11 (dual silo) and 14, both former SS-13 R&D silos, and site 22, a former SS-13 troop training silo, were undergoing conversion/modification; site 28 is a dual-silo site in an early stage of construction
SAM	13		By [REDACTED] 4 SA-3 launchers, each with 2 SA-3 missiles, and a LOW BLOW radar were at the north launch pad; this equipment has remained at the site throughout the reporting period

Table 2. A Chronology of Significant Events and Construction at
SS-19 Mobile ICBM-Associated Facilities at PMSTC
This table is classified TOP SECRET RUFF

Facility	May 1978	June 1978	July 1978	August 1978	September 1978	October 1978	November 1978	December 1978	January 1979	February 1979	March 1979
Mobile ICBM Facility 1	NSC*	The circular excavation on the west side of the launch area, last reported on [redacted] had been backfilled; a small square bldg was over the previously excavated area; a trench extended east from the base of this bldg to a bldg in the center of the launch area; 1 of the SS-11 canisters, previously observed in the GSE area, was lying in a trench directly south of the GSE area. Footings for a very small support bldg were observed adjacent to an excavation near the GSE area; the remaining SS-11 canister in the GSE area had been removed.	The SS-11 canister previously reported on [redacted] had been covered with dirt.	1 fuel transporter and 2 trucks were engaged in a prob fuel transfer operation in front of a garage at the north end of the site. A paved road/apron had been constructed around a prob fuel storage area; the prob fuel storage area contained at least 5 small fuel tanks.	Several more fuel tanks had been placed in the prob fuel storage area; the SS-11 canister that had been removed from the GSE area had been placed on a rectangular structure and was perpendicular to the buried SS-11 canister.	The fuel tanks in the prob fuel storage area had been partially covered with dirt.	Snow was cleared from the ramps/aprons serving the garages and missile-ready bldgs.	NSC	NSC	Both SS-7 elevators were being dismantled on their launch pads.	The elevator on the east launch pad had been removed.
Mobile ICBM Facility 2	In the operations area, a pose vehicle hardstand with poss alignment blocks, [redacted] were in the NW corner of the launch area.	An open-sided shed had been erected between the storage bunker and the high-bay bldg in the existing SS-9 warhead storage area; the area in front of the 9-bay garages was being paved.	NSC	NSC	A mockup of an SS-16/20-associated van truck was observed on the south side of the operations area.	A foundation for a small support bldg was observed directly behind the single-bay garages.	The small support bldg directly behind the single-bay garages appeared to be externally complete. Snow had been cleared from the aprons/ramps serving the single-bay garages and the missile-ready bldgs.	NSC	NSC	Snow had been cleared from the aprons/ramps serving the single-bay and 11-bay garages and the missile-ready bldgs.	NSC
Launch test site 5	Footings for a new bldg, [redacted] were in the NW corner of the launch area.	NSC	Construction materials were stacked in front of the footings reported on [redacted] 6 vertical structures had been erected.	NSC	Construction of the 9-bay garage and the [redacted] bldg in the launch area was continuing; the high-bay bldg upon on the east side of the support area appeared to be externally complete; footings for a new and prob related structure were seen just east of the high-bay bldg.	The 9-bay garage on the east side of the site was externally complete; construction was continuing on the [redacted] in the NW corner of the site; this bldg can now be identified as an 11-bay garage.	2 small cylindrical fuel tanks and und material were inside the foundation reported behind the high-bay bldg on imagery of [redacted]	NSC	Footings for a 48-m sq high-bay bldg were on the west side of the operations area.	Footings for a prob 4-bay shed/garage were in the NW section of the operations area.	NSC
Launch test site 6	NSC	NSC	Aprons in front of 2 of the 11-bay garages had been paved.	NSC	Unid canvas-covered equipment was on the apron in front of the 11-bay garages.	NSC	NSC	NSC	NSC	NSC	An unid vehicle/object was protruding from an open door of 1 of the 11-bay garages.
Launch test site 21	NSC	NSC	NSC	NSC	The movable roof section on the tentlike structure was retracted; the central area of the structure was unoccupied.	NSC	NSC	No usable imagery.	NSC	NSC	Vehicle tracks leading into the tentlike structure and into the canvas-covered entrance to the control bunker were seen; the movable roof section on the tentlike structure was still retracted.

*No significant change

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Table 3. Mobile Missile-Related Buildings and Garages at SS-16 Mobile ICBM-Associated Facilities at PMSTC
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Installation Name	Date Total Facility Last Observed	Single-Bay Garage Complete/Ucon	3-Bay Garage Complete/Ucon	6-Bay Garage Complete/Ucon	9-Bay Garage Complete/Ucon	11-bay Garage (66 x 18m) Complete/Ucon	11-bay Garage (66 x 24m) Complete/Ucon	Drive-in High Bay Complete/Ucon	Tech Spt Bldg Complete/Ucon	Clerestory Bldg Complete/Ucon	Misc Bldg Complete/Ucon	Remarks
Mobile ICBM Facility 1		8 0	0 0	0 0	0 0	2 0	1 0	0 0	1 0 (see Remarks)	1 0	3 0	Technical support bldg is a modified SS-7 GSE 2-bay garage
Mobile ICBM Facility 2		6 0	0 0	0 0	2 1	3 0	1 0	1 0	0 0	1 0	0 2	
ICBM Launch Test Site 6		0 0	0 0	0 0	0 0	3 0	0 0	0 0	0 0	0 0	0 0	
ICBM Launch Test Site 5		0 0	1 0 (see Remarks)	0 0	2 0	0 0	1 0	0 1	0 0	1 0	3 2	3-bay garage is a modified partially bunker-ed GSE garage and is not identical to the 3-bay garage seen at deployed SS-20 bases; however, it could house the same type of GSE (MAZ-543 MSV)

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Table 4. Chronology of Significant Activity and Conversion/Modification at SS-13 Launch Test Sites at PMSTC

Launch Site	May 1978	June 1978	July 1978	August 1978	September 1978	October 1978	November 1978	December 1978	January 1979	February 1979	March 1979
SS-13 Launches	SS-13 Mod 1 impact Kamchatka 3008 range	SS-13 Mod 1 impact Kamchatka 3004 range	SS-13 Mod 1 impact Kamchatka 3110 range	SS-13 Mod 2 impact Kamchatka 3032 range		SS-13 Mod 1 failure			SS-13 Mod 1 impact Kamchatka 3100 range	SS-13 Mod 1 impact Kamchatka range 3087	
SS-13 Launches	17										
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Table F-1 Chronology of Launches and Significant Activity at PMSTC Space Launch Sites
This table is a summary of the information contained in the following pages.

Space System	Launch Site	May 1978	June 1978	July 1978	August 1978	September 1978	October 1978	November 1978	December 1978	January 1979	February 1979	March 1979
SL-3												
SL-4												
SL-6												
Launch Site 1		One single-story barracks had been raised.	NSC	NSC	NSC	No usable imagery.	The multi-story barracks in the housing admin area appeared to be externally complete.	No usable imagery.	NSC	No usable imagery.	NSC	NSC
Launch Site 2		A rail spur was being constructed between a 3-story rail-served support bldg and the large missile receiving and checkout bldg.	NSC	The support bldg reported on appeared externally complete.	NSC	No usable imagery.	The rail spur reported on appeared to be complete.	No usable imagery.	No usable imagery.	No usable imagery.	NSC	NSC
Launch Site 3		In the support area, numerous pieces of und construction material were observed on the hardstand. The most unusual were 2 arch-shaped objects.	2 und arch-shaped objects which had been on the hardstand were gone. An und U-shaped object was in front of the deactivated launch point and was probably associated with the refurbishment of the launch point.	NSC	4 groups of 3 excavations each were observed. These excavations were probably for the installation of lighting and lightning arrestor towers.	A rail spur connecting the large missile assembly checkout bldg to the main rail line was observed. A small support bldg upon had been completed. Foundations were observed in the housing admin area.	A circular prob work platform was observed in front of deactivated launch point 3. A third multi-story barracks appeared to be externally complete. The job work platform had either been placed on the launch aperture or removed from the site.	NSC	Refacing of the flame bucket had begun. Rerailing of the flame bucket had been completed.	No usable imagery.	No usable imagery.	NSC
SL-7		No launches during the reporting period.										
SL-8												
Launch Site 9		New construction modification had begun. Earth was being removed from around the south propellant bunker and work had started on the foundations for 2 new bldgs within the launch area.	Extensive construction activity was observed in the launch area. Both propellant bunkers were being unshelved. Footings for all structure were near each of the propellant storage bunkers. Footings for a third structure were near the gantry rail at the east launch position. A new support bldg was externally complete south of the east launch position.	Construction appeared to be continuing on the ridge in the SE portion of the launch area.	Construction was continuing at the launch site. Excavation of both propellant bunkers and the control bunker was continuing. Half of the roof of the propellant bunker at the north end of the site had been removed. A mobile crane was east of the bunker and 2 cylindrical prop tanks were on the ground near the bunker.		Construction was continuing at the launch site.	Construction was continuing at the launch site.	Construction was continuing at the launch site.	Construction was continuing at the launch site.	Construction was continuing at the launch site.	Construction was continuing at the launch site.
Launch Site 9	NSC	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	NSC	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	NSC	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.	At the west launch position, the gantry was near the launch pad and activity was observed on the pad near the launch stand.
Launch Site 10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC
SL-14												
Launch Site 27		The rapid elevator had been installed in the north launch position.	On imagery acquired at 1921Z, indications of a recent launch were observed. The rapid elevator on the south launch pad had been raised and exhaust burn marks were on the pad around the launch point and in the flame bucket on imagery acquired at 0748Z on 1921Z. The elevator had been lowered, and no evidence of launch preparations was observed.	No usable imagery.	The rapid elevator at the north launch pad was partially elevated. The extension to the northern missile ready bunker appeared to be complete.	The rapid elevator at both launch pads were partially elevated. A rail spur was being constructed from the northern missile ready bunker to the main rail line serving the site.	An empty SL-11 rail transporter was on the south launch pad. 3 backhoe vents had been added to the roof of the northern missile ready bunker. The previously reported rail spur was complete.	NSC	NSC	NSC	An SL-14 was on a rail transporter at the south launch pad. The SL-14 launch vehicle previously observed on the south launch pad was no longer present. A rail-transportable crane at the north launch pad had removed the launch stand mating ring from the pad apron and placed it on the apron. The rapid elevator at the south launch pad was cleared of snow and the launch stand mating rings were in place in their pad apertures. Evidence of a recent launch at the south launch pad consisted of snow melt disturbance and slight discoloration around the launch pad. An empty rail transporter was on the	The rail transporter had been removed from the pad. The rail transporter was at one of the propellant bunkers.

* No significant change

Table 8. Support Facilities and Associated Systems at PMSTC

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Facility	Systems	Remarks
Complex Support Facility	Weapon & space	Primarily housing and admin
Missile Handling Facility	Weapon & space	
Rail-to-Road Transfer Point	Weapon & space	
Complex Support Facility North	Unknown	Primarily housing and admin
Complex Support Facility 2	—	Construction support
Sites 9 & 10 Support Facility	Space	
East Support Facility	Weapon	
Rangehead Tracking Facility	—	Missile tracking
Telemetry Tracking Facility	Weapon	Missile tracking
Dummy Launch Site A	—	Training
Dummy Launch Site B	—	Training
Type IIIIE Site Mockup	—	Possible training
Possible Warhead Fragmentation Test Facility	—	

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Table 9. Chronology of Significant Events and Construction Activity at PMSTC Support Facilities
This table is its entirety is classified TOP SECRET RUFF

Facility	May 1978	June 1978	July 1978	August 1978	September 1978	October 1978	November 1978	December 1978	January 1979	February 1979	March 1979
Complex Support Facility	NSC*	NSC	[] Grading for 4 barracks/admin bldgs. 2 support bldgs. and 1 high-bay bldg were observed	[] A foundation for a third support bldg was observed near the concrete plant	NSC	[] A pose head-quarters bldg was externally complete in an area immediately south of the river; this foundation had been begun by []	[] 2 of the 4 previously reported barracks/admin bldgs. both support bldgs. and the high-bay bldg were externally complete. foundations for another barracks/admin bldg were observed	NSC	[] 3 of the 4 barracks/admin bldgs appeared to be externally complete	NSC	NSC
Missile Handling Facility	[] A T-shaped foundation for a barracks was observed in the housing/admin area. [] Many canvas-covered objects/pieces of equipment were on the apron in front of the checkout bldg in the payload checkout area; in the SS-13 ground support equipment training and storage area, the simulated SS-13 door was open and remained so until []	[] A mobile gantry crane was in the large high-bay bldg in the space vehicle receiving and checkout area; many small SS-13 transporter/silo loader were also observed in the SS-13 GSE training and storage area; a prob SS-13 silo loading exercise was in progress. [] in the SS-13 receiving and checkout area, 2 SS-13 transporters/silo loaders were observed; at the payload checkout area, 3 type II warhead vans, 2 prob type I warhead vans, and 2 mobile cranes were observed; this suggests that this area may no longer be exclusively associated with space payloads	[] A SS-13 transporter/silo loader were in the SS-13 receiving and checkout area; 1 was on the apron in front of the 4-bay garage, 1 was adjacent to the 4-bay garage, and 2 were entering the area. [] 3 SS-13 transporters/silo loaders were in the SS-13 GSE training and storage area; 2 of the transporter/silo loaders were just east of an 8-bay garage, and the third transporter/silo loader was aligned with the open IIE GSE training silo. [] A prob MAZ-543 cargo truck was in front of the 4-bay garage in the SS-16 receiving and checkout area; trenches were observed just west of the payload handling area	[] The previously mentioned und objects in the payload handling area had been removed. [] 1 SS-13 transporter/silo loader was erected over the GSE training and storage area	[] In the space launch vehicle receiving and checkout area, a rail spur originating from the main rail line and connecting the smaller high-bay bldg to the 2-bay garage had been begun by [] [] 2 SS-13 transporters/silo loaders were in the GSE training and storage area; 2 of the 3 large apartment bldgs in the housing/admin area had been completed; the third large apartment bldg was in a late stage of construction	[] A TWIN EAR was parked in the SS-16 receiving and checkout area; this was the first sighting of a TWIN EAR since Aug 78; canvas panels were draped along the sides of the rail off-loading structure and the missile assembly checkout bldg	NSC	[] The area of trenching observed west of the payload handling area on [] had been leveled and footings for a large bldg were observed	[] The TWIN EAR reported on [] was no longer present. [] Grading for a new rail spur was observed between the SS-13 receiving and checkout area and the SS-16 receiving and checkout area	NSC	[] In the housing/admin area, footings for a new support bldg were observed
Rail-to-Road Transfer Point	NSC	NSC	No usable imagery	NSC	NSC	[] 11 vehicles/pieces of equipment were observed at the facility	NSC	No usable imagery	No usable imagery	NSC	NSC
Complex Support Facility North	NSC	[] A new athletic field and track had been constructed adjacent to the support area; a support bldg in the vehicle storage/maintenance area had been raised	NSC	NSC	[] The construction of a prob survey tower was observed in a clearing just north of the support facility	NSC	NSC	NSC	NSC	NSC	NSC
Complex Support Facility 2	NSC	NSC	No usable imagery	NSC	No usable imagery	[] Tracks for a traveling gantry crane had been constructed in the material receiving area; 2 support bldgs had been raised by this date	NSC	NSC	No usable imagery	NSC	NSC
East Support Facility	NSC	NSC	[] Trenches extended from an admin bldg to a small rectangular pose support bldg foundation; the trenches were present throughout the reporting period	NSC	[] An excavated area was observed alongside the site access road on the south side of the facility	NSC	NSC	No usable imagery	NSC	NSC	NSC
Rangefinder Tracking Facility	NSC	NSC	NSC	NSC	NSC	NSC	NSC	No usable imagery	NSC	NSC	[] The VT-3 (Bow & Arrow) interferometer at this facility was being modified; trees were being cleared along an azimuth of 270° from the central control bldg; the clearing extended approximately 4,600 m
Telemetry Tracking Facility	NSC	NSC	[] A road had been constructed connecting the quonset-type bldg in the facility to the main road	NSC	NSC	NSC	NSC	No usable imagery	NSC	NSC	NSC

* No significant change

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REFERENCES

IMAGERY

(TSR) All available KEYHOLE imagery of Plesetsk Missile/Space Test Center SSM, USSR, acquired from [redacted] 25X1
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MAPS OR CHARTS

DMA. US Air Target Chart, Series 200, Sheets 0102-9 and -10, scale 1:200,000 (UNCLASSIFIED)

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2. DIA/FTD. [redacted] DST-1070S-102-78-SAO, *Plesetsk Missile and Space Range (U)*, 21 Apr 78 (TOP SECRET [redacted]) 25X1
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3. NPIC. [redacted] PIR-049/78, *Soviet SS-16/-20 Trends and Developments, February 1978 - November 1978 (TSR)*, Jan 79 (TOP SECRET [redacted]) 25X1
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RELATED DOCUMENT

SPACEFLIGHT, British Interplanetary Society, Volumes from May 78—Mar 79 (UNCLASSIFIED)

REQUIREMENT

COMIREX P03
Project 290014DP

(U) Comments and queries regarding this report are welcome. They may be directed to [redacted] Soviet 25X1
Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1

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